

Meeting Description: Michigan Geographic Framework Users Meeting

Date: January 6, 2005

Time: 10:00 a.m.

Location: Michigan Center for Geographic Information, George W. Romney Building, 10th Floor, Conference Room

- I. Approval of Meeting Minutes
- II. Geographic Framework Program
 - A. Framework Activities Update

Everett Root, Center for Geographic Information (CGI), reported that as for as the Framework program, CGI has been updating the school district boundaries based on the boundary review program that took place last Spring. We are in the process of getting the changes submitted by the school districts now into the Framework. This will be in preparation to help build the election geography that will be added to Framework. Eventually, voting precincts are going to be added and school districts are important component of voting. So, we are going to do school districts first and then voting precincts will follow over the next couple of years. We will probably be able to get most of them on this year. Then we're going to want to be able to do updates and changes to the Framework. The election cycle provides a calendar that clerks can change their voter precincts. And we will be working with them as soon as we get them on the Framework. Discussion on when changes can be made before an election and how often. There is a cut-off date that clerks have to make their changes by before a certain election. There is no stipulation as to how often changes can be made as long as it is before the cut-off date. There are 4 dates now where elections can be held and any precinct changes must be organized around those dates.

Everett (CGI), the other thing that we have been working on is getting all of the roads in for ACT 51 and that has been done now. We are making maps to go out to the county, city, village street administrators, road commissions and so on. The county maps are all done and have been printed and delivered to MDOT. City and villages are processing as we speak. Those will be printed and delivered to MDOT for review and then sent out in the mail. Staff are going through the Qualified Voter File working on the updates that have been sent in over the last couple of years that never got added to Framework, a lot of private streets.

B. Digital Ortho Update

Everett (CGI), we discussed in December about some ortho projects in the state that will be flying in the spring and it was confirmed that Tri-County Planning has selected a vendor and is in the contract stage for photos for Ingham, Eaton and Clinton Counties. They will be doing the 6-inch color. We have started discussions with them on the possibility of partnering. Also, Saginaw, Bay and Midland counties will be flying in the spring. They have selected a vendor and are in the process of working on the contract as well.

Discussion – Jackson County is partnering with Consumers Energy and others using Pictometry. Genesee County is having a Pictometry demo on Monday, January 10th. Pictometry is a company that does aerial imagery on an oblique angle. It is a 3D mode. When they fly they have 5 cameras on the plane, which makes them capable of shooting from all different angles. It produces 3 different shots (tiles). The neighborhood shot –

very low altitude (2000 ft.), high resolution. You can see the shot or walk around it from all different angles including the top. Community shot- it is a little higher altitude. You can't see all around the image, like you can with the Neighborhood shot. Then there is the higher altitude shot (Ortho) – done in mosaic. They do this one at no cost. Your cost is based on the number of tiles you chose. Currently it has to be viewed with their software. It will interact within ESRI, but in the very near future, it can be used directly. Their software is licensed to any governmental unit and community is free to use it. They have expanded it to business partners too. They own the rights to sell to neighborhood images from their website. It is not a traditional ortho image, but a mosaic that is very close. If you want to spend the money, it can be matched back to the existing orthos. Sanborn is their business partner that does that.

It can be used with homeland security because it will be able to use the 3D mode. It was discussed that it was used in Florida during the Hurricane season for damage assessments. Also, for law enforcement for building assess, flood plain maps, and possibly even the prisons.

When the fly by is done, it is a 30-45 day delivery for the product. The software licensing comes with that. It can be stored on portable hard drives. There is a 2-year lease with a payment plan and then if you don't fly by the third year you pay 20% of the annual cost of one year. If by the fourth year you don't do a fly over it is 5% of the cost and the fifth year they fly again anyhow.

Sherman Hollander, Department of Natural Resources (MDNR), reported that the Department of Agriculture flight is scheduled for next summer. They are trying to raise an additional \$400,000 to get the whole state flown under that project. As of December 22nd, they had \$315,000 of that committed by various agencies and groups.

Everett (CGI), this is from the NAIP (National Agricultural Inventory Program). They are to fly all of the agricultural lands in Michigan at two Meter resolutions. If a partnership can be created and the funding can be attained, they will fly the whole state at 1 meter.

III. MDNR Projects and Activities

No report given.

IV. MDOT Projects and Activities

Joyce Newell, Michigan Department of Transportation (MDOT), are in the process of updating traffic information and the number of lanes. They need to know whether it is a one-way or two-way road. One-way street system can change rather rapidly without knowing about it on the local roads. They use asset management to get the number of lanes. Their rules are a little different than what they have to report to the Federal Agency. Have to have the number of thru lanes. If there is a three-lane roadway, it is either a one-way or a continuous turn lane. They have to know the difference in order to get it correctly for Federal reporting.

Everett (CGI), MDNR and MDOT are in partnership. They did GPS (Global Position System) driveline in state parks capturing the entrance roads, parking lots, campground roads, boating access sites and harbors. They shared the results with us and we need to see what it will take to get it cleaned up for Framework. Will take out the state park roads and replace it with the new ones. It will take awhile. There are hundreds of files that need to be updated. But it will help us improve that part of the Framework.

Joyce (MDOT), we have completed our 2nd year of asset management pavement condition collections. That is being done by the local agencies this year. It was to have been done by the end of the year. This includes any roads that qualify under Federal assistance. It is based on National function classification. There are about 30,000 to 40,000 miles of roadway. This was done for a two-year period. They need three years to make the asset management payment model work. They are looking at getting traffic data for that. It would be a separate, but related effort for a HPMS (Highway Performance Monitoring System)

V. MDEQ Projects and Activities

David Slayton, Michigan Department of Environmental Quality (MDEQ), there are no new projects that we are working on. We have given over \$100,000 for the NAIP pictures. We are also working on a database for leaking underground storage tanks.

VI. MSP Projects and Activities

Everett (CGI) reported that Eric Nischan (MSP) was not at the meeting, but he and Captain Ort continue to meet to work on the recommendations that the GIS committee made.

VII. MDCH Projects and Activities

No report given.

VIII. MSI Projects and Activities

No report given.

IX. CGI Projects and Activities

Everett (CGI), one new development is that we have assigned all of the railroad crossings in Framework with a National Inventory number. MDOT maintains the database for those numbers. They were put on the Framework last year and we have built an intranet application for them to review it. MDOT staff along with the MDOT Rail crossing safety inspectors will review it. There will be improved data about these crossings. This will allow them to do some reporting with maps, something they haven't been able to do before.

One other activity is a crash location resolution process. This is when crashes don't locate. Then research takes place as to why these crash reports don't locate on the Framework. There has been a lot more review and that research and information is being forwarded to us to update in an alias table. Road names are being used in the report that can't be confirmed, so an alias is being set up. This is so these crashes can be located in an automated way.

X. MSU Remote Sensing and GIS Research and Outreach Services Projects and Activities

Justin Booth, Michigan State University (MSU), there will be training at the end of February 28th thru March 4th. There will be an Arc GIS training class, a Vector processing class, a Raster processing class and a Cartography class on Friday. This information is up on the Web site. Will bring in a flyer for the next meeting.

Last month, all of the GIS staff was certified through the GISP program from the URISA, ESRI supported program. As far as the data that might be available through the ground water mapping project within the year we should have a couple of data levels that will be coming to CGI to get upon the Web. The whole goal is to have a statewide land use land cover project coordinated.

XI. County/Local Projects and Activities

Scott Ambs, Jackson County – Pictography has been our big push. It has happened fast. This is because of the spring flight. It has been the bulk of our activity. Next, we are moving into the school district precincts. The question that has been asked is if we develop the school district boundaries, is that going to affect the voter precinct as well. Can QVF update the voting precinct using the school district boundaries?

Everett (CGI) there are rules for precinct changes which include an old map, a new map, a resolution, the meeting minutes from the Redistricting committee and then if there are precinct changes they will need to submit a street index form. These are the rules set by the Department of State. Once the QVF and the map are the same, GIS operations will allow us to make changes to the precinct, but for now it is all in the Oracle database.

James Munro (St. Clair County) we have put up another course GPS reference station last month in Capac, MI. We are continuing to work with SEMCOG on the Aerial photography project. We are taking on an initiative with our registrar of deeds with document management and coordinating that with some of the RMAP grant money that has come in and centralizing our index system for surveys between the Drain Office, the Road Commission, the Registrar of Deeds and our Equalization Office. All will be on one centralized database.

XII. Regional Projects and Activities

Steve Stepek, West Michigan Regional Planning Commission (WMRPC) we are preparing to get started on Asset Management. We had a meeting a couple of months back. We are considering doing all the roads, not just the ones for ACT 51. Trying to figure out what would be the best way to get the data and whether or not to divide over 3 years or to do it every year.

XIII. Federal Projects and Activities

No representative.

Everett (CGI) the new TIGER was suppose to be out in December. This would be the TIGER that matches Framework in many counties. There were several southern counties that should be have been through that process in time for the TIGER release. Their status map shows all but 14 counties in Michigan being approved for that process. And of those last 14, we have repositioned them again and have submitted 12 and the last two are just about done. It will be interesting to be able to map things to the block level data and have it line up with the Framework.

XIV. Other Issues

XV. Next Meeting Date

February 3, 2005, 10 a.m. until 12 p.m., Michigan Center for Geographic Information, George W. Romney Building, 111 S. Capitol, 10th Floor, Lansing, MI 48933